



#4

SEQUENCE LISTING

<110> DuPont Pharmaceuticals Company

<120> Peptidase-cleavable, targeted antineoplastic drugs and their therapeutic use

<130> PH-7134

<150> 60/189,387

<151> 2000-03-15

<160> 210

<170> PatentIn version 3.0

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09800663E-062601

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ordinarily skilled artisans

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090637-052501  
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UNITED STATES DEPARTMENT OF JUSTICE  
FEDERAL BUREAU OF INVESTIGATION  
WASHINGTON, D. C. 20535

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<222> (1)..(6)  
<223> The synthesis of this peptide may be performed on an ABI 433A peptide synthesizer using readily available materials well known to ordinarily skilled artisans

<400> 70

Xaa Pro Leu Gly Phe Xaa  
1 5

<210> 71  
<211> 6  
<212> PRT  
<213> Artificial Sequence

<220>  
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<223> acetyl-glycine

<220>  
<221> MOD\_RES  
<222> (6)..(6)  
<223> biphenylalanine

<220>  
<221> PEPTIDE  
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<223> The synthesis of this peptide may be performed on an ABI 433A peptide synthesizer using readily available materials well known to ordinarily skilled artisans

09080302-060001

0980832-0625001

<400> 71

Xaa Pro Leu Gly Leu Xaa  
1 5

<210> 72

<211> 6

<212> PRT

<213> Artificial Sequence

<220>

<221> MOD\_RES

<222> (1)..(1)

<223> acetyl-glycine

<220>

<221> MOD\_RES

<222> (5)..(5)

<223> 2-naphthylalanine

<220>

<221> MOD\_RES

<222> (6)..(6)

<223> biphenylalanine

<220>

<221> PEPTIDE

<222> (1)..(6)

<223> The synthesis of this peptide may be performed on an ABI 433A peptide synthesizer using readily available materials well known to ordinarily skilled artisans

<400> 72

Xaa Pro Leu Gly Xaa Xaa  
1 5

<210> 73

<211> 6

<212> PRT

<213> Artificial Sequence

<220>

<221> MOD\_RES

<222> (1)..(1)

<223> acetyl-glycine

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<220>
<221>  PEPTIDE
<222>  (1)..(6)
<223>  The synthesis of this peptide may be performed on an ABI 433A pep
      tide synthesizer using readily available materials well known to
      ordinarily skilled artisans
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<400> 73

Xaa Pro Leu Gly Phe Ala  
1 5

<210>	74
<211>	6
<212>	PRT
<213>	Artificial Sequence

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<220>
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<223> acetyl-glycine
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<220>
<221> MOD_RES
<222> (5)..(5)
<223> biphenylalanine
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<220>
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<222>  (1)..(6)
<223>  The synthesis of this peptide may be performed on an ABI 433A pep
      tide synthesizer using readily available materials well known to
      ordinarily skilled artisans
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<400> 74

Xaa Pro Leu Gly Xaa Ala  
1 5

<210>	75
<211>	6
<212>	PRT
<213>	Artificial Sequence

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**SECRET**

<223> acetyl-glycine

<220>

<221> PEPTIDE

<222> (1)..(6)

<223> The synthesis of this peptide may be performed on an ABI 433A peptide synthesizer using readily available materials well known to ordinarily skilled artisans

<400> 75

Xaa Pro Leu Gly Leu Ala  
1 5

<210> 76

<211> 6

<212> PRT

<213> Artificial Sequence

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<223> acetyl-glycine

<220>

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<222> (5)..(5)

<223> O-benzyl-tyrosine

<220>

<221> PEPTIDE

<222> (1)..(6)

<223> The synthesis of this peptide may be performed on an ABI 433A peptide synthesizer using readily available materials well known to ordinarily skilled artisans

<400> 76

Xaa Pro Leu Gly Xaa Phe  
1 5

<210> 77

<211> 6

<212> PRT

<213> Artificial Sequence

<220>

10992902.062601





<220>  
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<223> 4-pyridyl-alanine

<220>  
<221> PEPTIDE  
<222> (1)..(6)  
<223> The synthesis of this peptide may be performed on an ABI 433A peptide synthesizer using readily available materials well known to ordinarily skilled artisans

<400> 79

Xaa Pro Leu Gly Leu Xaa  
1 5

<210> 80  
<211> 6  
<212> PRT  
<213> Artificial Sequence

<220>  
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<223> acetyl-glycine

<220>  
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<223> The synthesis of this peptide may be performed on an ABI 433A peptide synthesizer using readily available materials well known to ordinarily skilled artisans

<400> 80

Xaa Pro Leu Gly Leu Arg  
1 5

<210> 81  
<211> 6  
<212> PRT  
<213> Artificial Sequence

<220>  
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09306632-052601



<221> MOD\_RES  
<222> (5)..(5)  
<223> homophenylalanine

<220>  
<221> PEPTIDE  
<222> (1)..(6)  
<223> The synthesis of this peptide may be performed on an ABI 433A peptide synthesizer using readily available materials well known to ordinarily skilled artisans

<400> 83

Xaa Pro Leu Gly Xaa Leu  
1 5

<210> 84  
<211> 6  
<212> PRT  
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<220>  
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<222> (1)..(1)  
<223> acetyl-glycine

<220>  
<221> PEPTIDE  
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<223> The synthesis of this peptide may be performed on an ABI 433A peptide synthesizer using readily available materials well known to ordinarily skilled artisans

<400> 84

Xaa Pro Leu Ala Leu Leu  
1 5

<210> 85  
<211> 6  
<212> PRT  
<213> Artificial Sequence

<220>  
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<222> (1)..(1)  
<223> N,N-dimethylglycine

09806637-06601





<210> 89  
<211> 6  
<212> PRT  
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<220>  
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<222> (1)..(1)  
<223> N,N-dimethylglycine

<220>  
<221> MOD\_RES  
<222> (5)..(5)  
<223> biphenylalanine

<220>  
<221> PEPTIDE  
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<223> The synthesis of this peptide may be performed on an ABI 433A peptide synthesizer using readily available materials well known to ordinarily skilled artisans

<400> 89  
Xaa Pro Arg Gly Xaa Leu  
1 5

<210> 90  
<211> 6  
<212> PRT  
<213> Artificial Sequence

<220>  
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<222> (1)..(1)  
<223> acetyl-glycine

<220>  
<221> MOD\_RES  
<222> (6)..(6)  
<223> O-benzyl-tyrosine

<220>  
<221> PEPTIDE  
<222> (1)..(6)  
<223> The synthesis of this peptide may be performed on an ABI 433A peptide synthesizer using readily available materials well known to

09808832-062601

ordinarily skilled artisans

<400> 90

Xaa Pro Leu Gly Leu Xaa  
1 5

<210> 91

<211> 6

<212> PRT

<213> Artificial Sequence

<220>

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<222> (1)..(1)

<223> acetyl-glycine

<220>

<221> PEPTIDE

<222> (1)..(6)

<223> The synthesis of this peptide may be performed on an ABI 433A peptide synthesizer using readily available materials well known to ordinarily skilled artisans

<400> 91

Xaa Pro Leu Gly Glu Leu  
1 5

<210> 92

<211> 6

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<223> N,N-dimethylglycine

<220>

<221> MOD\_RES

<222> (5)..(5)

<223> biphenylalanine

<220>

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<222> (1)..(6)

109920-269360





103390.06201

<221> PEPTIDE  
<222> (1)..(6)  
<223> The synthesis of this peptide may be performed on an ABI 433A peptide synthesizer using readily available materials well known to ordinarily skilled artisans

<400> 94

Xaa Pro Leu Gly Xaa Glu  
1 5

<210> 95  
<211> 7  
<212> PRT  
<213> Artificial Sequence

<220>  
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<223> N,N-dimethylglycine

<220>  
<221> MOD\_RES  
<222> (4)..(4)  
<223> sarcosine (N-methylglycine)

<220>  
<221> MOD\_RES  
<222> (5)..(5)  
<223> homophenylalanine

<220>  
<221> PEPTIDE  
<222> (1)..(7)  
<223> The synthesis of this peptide may be performed on an ABI 433A peptide synthesizer using readily available materials well known to ordinarily skilled artisans

<400> 95

Xaa Pro Arg Xaa Xaa Arg Leu  
1 5

<210> 96  
<211> 7  
<212> PRT  
<213> Artificial Sequence

<220>  
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<222> (1)..(1)  
<223> N,N-dimethylglycine

<220>  
<221> MOD\_RES  
<222> (5)..(5)  
<223> homophenylalanine

<220>  
<221> PEPTIDE  
<222> (1)..(7)  
<223> The synthesis of this peptide may be performed on an ABI 433A peptide synthesizer using readily available materials well known to ordinarily skilled artisans

<400> 96

Xaa Pro Arg Gly Xaa Arg Leu  
1 5

<210> 97  
<211> 7  
<212> PRT  
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<222> (1)..(1)  
<223> N,N-dimethylglycine

<220>  
<221> MOD\_RES  
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<223> biphenylalanine

<220>  
<221> PEPTIDE  
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<223> The synthesis of this peptide may be performed on an ABI 433A peptide synthesizer using readily available materials well known to ordinarily skilled artisans

<400> 97

1093232-062601





ordinarily skilled artisans

<400> 101

Xaa Leu Gly Xaa His Leu  
1 5

<210> 102  
<211> 6  
<212> PRT  
<213> Artificial Sequence

<220>  
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<222> (1)..(1)  
<223> acetyl-proline

<220>  
<221> MOD\_RES  
<222> (4)..(4)  
<223> homophenylalanine

<220>  
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<223> The synthesis of this peptide may be performed on an ABI 433A pep  
tide synthesizer using readily available materials well known to  
ordinarily skilled artisans

<400> 102

Xaa Leu Gly Xaa Ala Leu  
1 5

<210> 103  
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<220>  
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09606632-062601

<223> homphenylalanine

<220>

<221> PEPTIDE

<222> (1)..(6)

<223> The synthesis of this peptide may be performed on an ABI 433A peptide synthesizer using readily available materials well known to ordinarily skilled artisans

<400> 103

Xaa Leu Gly Xaa Tyr Leu  
1 5

<210> 104

<211> 6

<212> PRT

<213> Artificial Sequence

<220>

<221> MOD\_RES

<222> (1)..(1)

<223> acetyl-proline

<220>

<221> MOD\_RES

<222> (4)..(4)

<223> homophenylalanine

<220>

<221> MOD\_RES

<222> (5)..(5)

<223> morpholinylpropyl-glycine

<220>

<221> PEPTIDE

<222> (1)..(6)

<223> The synthesis of this peptide may be performed on an ABI 433A peptide synthesizer using readily available materials well known to ordinarily skilled artisans

<400> 104

Xaa Leu Gly Xaa Xaa Leu  
1 5

1099026960

<210> 105  
<211> 7  
<212> PRT  
<213> Artificial Sequence

<220>  
<221> MOD\_RES  
<222> (1)..(1)  
<223> acetyl-gamma-glutamic acid

<220>  
<221> MOD\_RES  
<222> (5)..(5)  
<223> homophenylalanine

<220>  
<221> PEPTIDE  
<222> (1)..(7)  
<223> The synthesis of this peptide may be performed on an ABI 433A peptide synthesizer using readily available materials well known to ordinarily skilled artisans

<400> 105  
  
Xaa Pro Leu Gly Xaa Tyr Leu  
1 5

<210> 106  
<211> 6  
<212> PRT  
<213> Artificial Sequence

<220>  
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<222> (1)..(1)  
<223> succinyl-proline

<220>  
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<223> homophenylalanine

<220>  
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<223> The synthesis of this peptide may be performed on an ABI 433A peptide synthesizer using readily available materials well known to

1090290.2-062601





<223> acetyl-proline

<220>

<221> MOD\_RES

<222> (4)..(4)

<223> homo-tyrosine

<220>

<221> PEPTIDE

<222> (1)..(6)

<223> The synthesis of this peptide may be performed on an ABI 433A peptide synthesizer using readily available materials well known to ordinarily skilled artisans

<400> 108

Xaa Leu Gly Xaa Tyr Leu  
1 5

<210> 109

<211> 6

<212> PRT

<213> Artificial Sequence

<220>

<221> MOD\_RES

<222> (1)..(1)

<223> acetyl-proline

<220>

<221> MOD\_RES

<222> (4)..(4)

<223> 4-aza-homophenylalanine

<220>

<221> PEPTIDE

<222> (1)..(6)

<223> The synthesis of this peptide may be performed on an ABI 433A peptide synthesizer using readily available materials well known to ordinarily skilled artisans

<400> 109

Xaa Leu Gly Xaa Tyr Leu  
1 5

<210>	110
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<212>	PRT
<213>	Artificial Sequence

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<220>
<221> MOD_RES
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<223> acetyl-proline
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<220>
<221> MOD_RES
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<223> (O-(4-pyridyl)-tyrosine)

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<220>
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<223> The synthesis of this peptide may be performed on an ABI 433A pep
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      ordinarily skilled artisans
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<400> 110

Xaa Leu Gly Xaa Tyr Leu  
1 5

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<210> 111
<211> 6
<212> PRT
<213> Artificial Sequence
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<220>
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<223> acetyl-proline

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<220>
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<223> phenylpropyl-glycine

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<220>
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<223>    The synthesis of this peptide may be performed on an ABI 433A pep
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```

ordinarily skilled artisans

<400> 111

Xaa Leu Gly Xaa Tyr Leu  
1 5

<210> 112

<211> 6

<212> PRT

<213> Artificial Sequence

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<222> (1)..(1)

<223> acetyl-proline

<220>

<221> MOD\_RES

<222> (4)..(4)

<223> styryl-alanine

<220>

<221> PEPTIDE

<222> (1)..(6)

<223> The synthesis of this peptide may be performed on an ABI 433A peptide synthesizer using readily available materials well known to ordinarily skilled artisans

<400> 112

Xaa Leu Gly Xaa Tyr Leu  
1 5

<210> 113

<211> 6

<212> PRT

<213> Artificial Sequence

<220>

<221> MOD\_RES

<222> (1)..(1)

<223> acetyl-proline

<220>

<221> MOD\_RES

<222> (4)..(4)

10990-23360







Xaa Leu Gly Xaa Xaa Leu  
1 5

<210> 118  
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<212> PRT  
<213> Artificial Sequence

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<222> (1)..(1)  
<223> acetyl-gamma-glutamic acid

<220>  
<221> MOD\_RES  
<222> (5)..(5)  
<223> homophenylalanine

<220>  
<221> MOD\_RES  
<222> (6)..(6)  
<223> ornithine

<220>  
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<223> The synthesis of this peptide may be performed on an ABI 433A pep  
tide synthesizer using readily available materials well known to  
ordinarily skilled artisans

<400> 118

Xaa Pro Leu Gly Xaa Xaa Leu  
1 5

<210> 119  
<211> 7  
<212> PRT  
<213> Artificial Sequence

<220>  
<221> MOD\_RES  
<222> (1)..(1)  
<223> gamma-glutamic acid

<220>

00808832-062801



<221> MOD\_RES  
<222> (5)..(5)  
<223> homophenylalanine

<220>  
<221> MOD\_RES  
<222> (6)..(6)  
<223> ornithine

<220>  
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<222> (1)..(7)  
<223> The synthesis of this peptide may be performed on an ABI 433A peptide synthesizer using readily available materials well known to ordinarily skilled artisans

<400> 119  
Xaa Pro Leu Gly Xaa Xaa Leu  
1 5

<210> 120  
<211> 6  
<212> PRT  
<213> Artificial Sequence

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<223> acetyl-proline

<220>  
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<222> (2)..(2)  
<223> ornithine

<220>  
<221> MOD\_RES  
<222> (4)..(4)  
<223> homophenylalanine

<220>  
<221> MOD\_RES  
<222> (5)..(5)  
<223> ornithine

1099222.062601

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<220>
<221>    PEPTIDE
<222>    (1)..(6)
<223>    The synthesis of this peptide may be performed on an ABI 433A pep
peptide synthesizer using readily available materials well known to
ordinarily skilled artisans
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<400> 120

Xaa Xaa Gly Xaa Xaa Leu  
1 5

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<210> 121
<211> 6
<212> PRT
<213> Artificial Sequence
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<220>
<221> MOD_RES
<222> (1)..(1)
<223> acetyl-proline
```

```
<220>  
<221> MOD_RES  
<222> (2)..(2)  
<223> ornithine
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<220>
<221> MOD_RES
<222> (4)..(4)
<223> homophenylalanine
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<220>
<221>    PEPTIDE
<222>    (1)..(6)
<223>    The synthesis of this peptide may be performed on an ABI 433A pep
peptide synthesizer using readily available materials well known to
ordinarily skilled artisans
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<400> 121

Xaa Xaa Gly Xaa Tyr Leu  
1 5

$\langle 210 \rangle$	122
$\langle 211 \rangle$	7

**SECRET**

<212> PRT  
<213> Artificial Sequence

<220>  
<221> MOD\_RES  
<222> (1)..(1)  
<223> acetyl-gamma-glutamic acid

<220>  
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<222> (3)..(3)  
<223> ornithine

<220>  
<221> MOD\_RES  
<222> (5)..(5)  
<223> homophenylalanine

<220>  
<221> PEPTIDE  
<222> (1)..(7)  
<223> The synthesis of this peptide may be performed on an ABI 433A peptide synthesizer using readily available materials well known to ordinarily skilled artisans

<400> 122

Xaa Pro Xaa Gly Xaa Glu Leu  
1 5

<210> 123  
<211> 6  
<212> PRT  
<213> Artificial Sequence

<220>  
<221> MOD\_RES  
<222> (1)..(1)  
<223> acetyl-proline

<220>  
<221> MOD\_RES  
<222> (2)..(2)  
<223> ornithine

<220>

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<221> PEPTIDE  
<222> (1)..(6)  
<223> The synthesis of this peptide may be performed on an ABI 433A peptide synthesizer using readily available materials well known to ordinarily skilled artisans

<400> 123

Xaa Xaa Gly Leu Tyr Leu  
1 5

<210> 124  
<211> 6  
<212> PRT  
<213> Artificial Sequence

<220>  
<221> MOD\_RES  
<222> (1)..(1)  
<223> acetyl-proline

<220>  
<221> MOD\_RES  
<222> (2)..(2)  
<223> 4-aza-phenylalanine

<220>  
<221> PEPTIDE  
<222> (1)..(6)  
<223> The synthesis of this peptide may be performed on an ABI 433A peptide synthesizer using readily available materials well known to ordinarily skilled artisans

<400> 124

Xaa Xaa Gly Leu Tyr Leu  
1 5

<210> 125  
<211> 6  
<212> PRT  
<213> Artificial Sequence

<220>  
<221> MOD\_RES  
<222> (1)..(1)  
<223> acetyl-proline







**SECRET**

Xaa Leu Gly Xaa Xaa Leu  
1 5

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<220>
<221> MOD_RES
<222> (1)..(1)
<223> acetyl-gamma-glutamic acid
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```
<220>
<221> MOD_RES
<222> (5)..(5)
<223> homophenylalanine
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```
<220>
<221> MOD_RES
<222> (6)..(6)
<223> N,N-dimethyl-lysine
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```
<220>
<221> PEPTIDE
<222> (1)..(7)
<223> The synthesis of this peptide may be performed on an ABI 433A pep
      tide synthesizer using readily available materials well known to
      ordinarily skilled artisans
```

Xaa Pro Leu Gly Xaa Xaa Leu  
1 5

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<210> 131
<211> 7
<212> PRT
<213> Artificial Sequence
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<220>
<221> MOD_RES
<222> (1) .. (1)

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**SECRET**

<221> MOD\_RES

<223> homophenylalanine

<221> MOD\_RES

<223> N,N-dimethyl-lysine

<221> PEPTIDE

<222> (1)..(7)  
<223> The synthesis of this peptide may be performed on an ABI 433A peptide synthesizer using readily available materials well known to ordinarily skilled artisans

Xaa Pro Leu Gly Xaa Xaa Leu  
1 5

<211> 6

<213> Artificial Sequence

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<221> MOD_RES
```

<223> acetyl-proline

<221> MOD\_RES

<223> homophenylalanine

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<221> MOD_RES
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<223> N,N-dimethyl-lysine

**<220>**

<221> MOD\_RES  
<222> (6)..(6)  
<223> norleucine

<220>  
<221> PEPTIDE  
<222> (1)..(6)  
<223> The synthesis of this peptide may be performed on an ABI 433A peptide synthesizer using readily available materials well known to ordinarily skilled artisans

<400> 132

Xaa Leu Gly Xaa Xaa Xaa  
1 5

<210> 133  
<211> 6  
<212> PRT  
<213> Artificial Sequence

<220>  
<221> MOD\_RES  
<222> (1)..(1)  
<223> acetyl-proline

<220>  
<221> MOD\_RES  
<222> (4)..(4)  
<223> homophenylalanine

<220>  
<221> MOD\_RES  
<222> (5)..(5)  
<223> N,N-dimethyl-lysine

<220>  
<221> MOD\_RES  
<222> (6)..(6)  
<223> cyclohexylalanine

<220>  
<221> PEPTIDE  
<222> (1)..(6)  
<223> The synthesis of this peptide may be performed on an ABI 433A peptide synthesizer using readily available materials well known to

0900332-062801

ordinarily skilled artisans

<400> 133

Xaa Leu Gly Xaa Xaa Xaa  
1 5

<210> 134

<211> 6

<212> PRT

<213> Artificial Sequence

<220>

<221> MOD\_RES

<222> (1)..(1)

<223> acetyl-proline

<220>

<221> MOD\_RES

<222> (4)..(4)

<223> homophenylalanine

<220>

<221> MOD\_RES

<222> (5)..(5)

<223> N5-aminocarbonylornithine

<220>

<221> PEPTIDE

<222> (1)..(6)

<223> The synthesis of this peptide may be performed on an ABI 433A peptide synthesizer using readily available materials well known to ordinarily skilled artisans

<400> 134

Xaa Leu Gly Xaa Xaa Leu  
1 5

<210> 135

<211> 7

<212> PRT

<213> Artificial Sequence

<220>

<221> MOD\_RES

<222> (1)..(1)

108290-229900

<223> acetyl-gamma-glutamic acid

<220>

<221> MOD\_RES

<222> (5)..(5)

<223> homophenylalanine

<220>

<221> MOD\_RES

<222> (6)..(6)

<223> N5-aminocarbonylornithine

<220>

<221> PEPTIDE

<222> (1)..(7)

<223> The synthesis of this peptide may be performed on an ABI 433A peptide synthesizer using readily available materials well known to ordinarily skilled artisans

<400> 135

Xaa Pro Leu Gly Xaa Xaa Leu  
1 5

<210> 136

<211> 6

<212> PRT

<213> Artificial Sequence

<220>

<221> MOD\_RES

<222> (1)..(1)

<223> acetyl-proline

<220>

<221> MOD\_RES

<222> (4)..(4)

<223> homophenylalanine

<220>

<221> PEPTIDE

<222> (1)..(6)

<223> The synthesis of this peptide may be performed on an ABI 433A peptide synthesizer using readily available materials well known to ordinarily skilled artisans



<220>  
<221> MOD\_RES  
<222> (4)..(4)  
<223> homophenylalanine

<220>  
<221> PEPTIDE  
<222> (1)..(6)  
<223> The synthesis of this peptide may be performed on an ABI 433A peptide synthesizer using readily available materials well known to ordinarily skilled artisans

<400> 138

Xaa Leu Gly Xaa Val Leu  
1 5

<210> 139  
<211> 7  
<212> PRT  
<213> Artificial Sequence

<220>  
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<222> (1)..(1)  
<223> acetyl-gamma-glutamic acid

<220>  
<221> MOD\_RES  
<222> (5)..(5)  
<223> homophenylalanine

<220>  
<221> PEPTIDE  
<222> (1)..(7)  
<223> The synthesis of this peptide may be performed on an ABI 433A peptide synthesizer using readily available materials well known to ordinarily skilled artisans

<400> 139

Xaa Pro Leu Gly Xaa Glu Leu  
1 5

<210> 140  
<211> 6

09603337.062301

<212> PRT  
<213> Artificial Sequence

<220>  
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<223> acetyl-glycine

<220>  
<221> MOD\_RES  
<222> (2)..(2)  
<223> 2-carboxyazetidine

<220>  
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<223> The synthesis of this peptide may be performed on an ABI 433A peptide synthesizer using readily available materials well known to ordinarily skilled artisans

<400> 140

Xaa Xaa Leu Gly Leu Leu  
1 5

<210> 141  
<211> 5  
<212> PRT  
<213> Artificial Sequence

<220>  
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<222> (1)..(1)  
<223> acetyl-(4-fluoro-phenylalanine)

<220>  
<221> PEPTIDE  
<222> (1)..(5)  
<223> The synthesis of this peptide may be performed on an ABI 433A peptide synthesizer using readily available materials well known to ordinarily skilled artisans

<400> 141

Xaa Leu Gly Leu Leu  
1 5

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<210> 142  
<211> 6  
<212> PRT  
<213> Artificial Sequence

<220>  
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<222> (1)..(1)  
<223> acetyl-homophenylalanine

<220>  
<221> PEPTIDE  
<222> (1)..(6)  
<223> The synthesis of this peptide may be performed on an ABI 433A peptide synthesizer using readily available materials well known to ordinarily skilled artisans

<400> 142

Xaa Leu Gly Leu Tyr Leu  
1 5

<210> 143  
<211> 6  
<212> PRT  
<213> Artificial Sequence

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<220>  
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<223> homophenylalanine

<220>  
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<222> (5)..(5)  
<223> ornithine

<220>  
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<223> The synthesis of this peptide may be performed on an ABI 433A peptide synthesizer using readily available materials well known to

109606632-052601  
109606632-052601







<221> MOD\_RES  
<222> (4)..(4)  
<223> homophenylalanine

<220>  
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<223> The synthesis of this peptide may be performed on an ABI 433A peptide synthesizer using readily available materials well known to ordinarily skilled artisans

<400> 147

Xaa Leu Gly Xaa Tyr Gly  
1 5

<210> 148  
<211> 6  
<212> PRT  
<213> Artificial Sequence

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<222> (1)..(1)  
<223> acetyl-proline

<220>  
<221> MOD\_RES  
<222> (6)..(6)  
<223> beta-homo-leucine

<220>  
<221> PEPTIDE  
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<223> The synthesis of this peptide may be performed on an ABI 433A peptide synthesizer using readily available materials well known to ordinarily skilled artisans

<400> 148

Xaa Leu Gly Leu Tyr Xaa  
1 5

<210> 149  
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<213> Artificial Sequence

148-149-150-151-152-153-154-155-156-157-158-159-160-161-162-163-164-165-166-167-168-169-170-171-172-173-174-175-176-177-178-179-180-181-182-183-184-185-186-187-188-189-190-191-192-193-194-195-196-197-198-199-200-201-202-203-204-205-206-207-208-209-210-211-212-213-214-215-216-217-218-219-220-221-222-223-224-225-226-227-228-229-230-231-232-233-234-235-236-237-238-239-240-241-242-243-244-245-246-247-248-249-250-251-252-253-254-255-256-257-258-259-260-261-262-263-264-265-266-267-268-269-270-271-272-273-274-275-276-277-278-279-280-281-282-283-284-285-286-287-288-289-290-291-292-293-294-295-296-297-298-299-300-301-302-303-304-305-306-307-308-309-310-311-312-313-314-315-316-317-318-319-320-321-322-323-324-325-326-327-328-329-330-331-332-333-334-335-336-337-338-339-340-341-342-343-344-345-346-347-348-349-350-351-352-353-354-355-356-357-358-359-360-361-362-363-364-365-366-367-368-369-370-371-372-373-374-375-376-377-378-379-380-381-382-383-384-385-386-387-388-389-390-391-392-393-394-395-396-397-398-399-400-401-402-403-404-405-406-407-408-409-410-411-412-413-414-415-416-417-418-419-420-421-422-423-424-425-426-427-428-429-430-431-432-433-434-435-436-437-438-439-440-441-442-443-444-445-446-447-448-449-450-451-452-453-454-455-456-457-458-459-460-461-462-463-464-465-466-467-468-469-470-471-472-473-474-475-476-477-478-479-480-481-482-483-484-485-486-487-488-489-490-491-492-493-494-495-496-497-498-499-500-501-502-503-504-505-506-507-508-509-510-511-512-513-514-515-516-517-518-519-520-521-522-523-524-525-526-527-528-529-530-531-532-533-534-535-536-537-538-539-540-541-542-543-544-545-546-547-548-549-550-551-552-553-554-555-556-557-558-559-560-561-562-563-564-565-566-567-568-569-570-571-572-573-574-575-576-577-578-579-580-581-582-583-584-585-586-587-588-589-590-591-592-593-594-595-596-597-598-599-600-601-602-603-604-605-606-607-608-609-610-611-612-613-614-615-616-617-618-619-620-621-622-623-624-625-626-627-628-629-630-631-632-633-634-635-636-637-638-639-640-641-642-643-644-645-646-647-648-649-650-651-652-653-654-655-656-657-658-659-660-661-662-663-664-665-666-667-668-669-670-671-672-673-674-675-676-677-678-679-680-681-682-683-684-685-686-687-688-689-690-691-692-693-694-695-696-697-698-699-700-701-702-703-704-705-706-707-708-709-710-711-712-713-714-715-716-717-718-719-720-721-722-723-724-725-726-727-728-729-730-731-732-733-734-735-736-737-738-739-740-741-742-743-744-745-746-747-748-749-750-751-752-753-754-755-756-757-758-759-760-761-762-763-764-765-766-767-768-769-770-771-772-773-774-775-776-777-778-779-780-781-782-783-784-785-786-787-788-789-790-791-792-793-794-795-796-797-798-799-800-801-802-803-804-805-806-807-808-809-810-811-812-813-814-815-816-817-818-819-820-821-822-823-824-825-826-827-828-829-830-831-832-833-834-835-836-837-838-839-840-841-842-843-844-845-846-847-848-849-850-851-852-853-854-855-856-857-858-859-860-861-862-863-864-865-866-867-868-869-870-871-872-873-874-875-876-877-878-879-880-881-882-883-884-885-886-887-888-889-890-891-892-893-894-895-896-897-898-899-900-901-902-903-904-905-906-907-908-909-910-911-912-913-914-915-916-917-918-919-920-921-922-923-924-925-926-927-928-929-930-931-932-933-934-935-936-937-938-939-940-941-942-943-944-945-946-947-948-949-950-951-952-953-954-955-956-957-958-959-960-961-962-963-964-965-966-967-968-969-970-971-972-973-974-975-976-977-978-979-980-981-982-983-984-985-986-987-988-989-990-991-992-993-994-995-996-997-998-999-1000



<223> The synthesis of this peptide may be performed on an ABI 433A peptide synthesizer using readily available materials well known to ordinarily skilled artisans

<400> 150

Xaa Leu Gly Leu Tyr Xaa  
1 5

<210> 151  
<211> 6  
<212> PRT  
<213> Artificial Sequence

<220>  
<221> MOD\_RES  
<222> (1)..(1)  
<223> acetyl-proline

<220>  
<221> MOD\_RES  
<222> (6)..(6)  
<223> 6-aminohexanoic acid

<220>  
<221> PEPTIDE  
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<223> The synthesis of this peptide may be performed on an ABI 433A peptide synthesizer using readily available materials well known to ordinarily skilled artisans

<400> 151

Xaa Leu Gly Leu Tyr Xaa  
1 5

<210> 152  
<211> 6  
<212> PRT  
<213> Artificial Sequence

<220>  
<221> MOD\_RES  
<222> (1)..(1)  
<223> acetyl-proline

<220>

151-152-153-154-155-156-157-158-159-160-161-162-163-164-165-166-167-168-169-170-171-172-173-174-175-176-177-178-179-180-181-182-183-184-185-186-187-188-189-190-191-192-193-194-195-196-197-198-199-200-201-202-203-204-205-206-207-208-209-210-211-212-213-214-215-216-217-218-219-220-221-222-223-224-225-226-227-228-229-230-231-232-233-234-235-236-237-238-239-240-241-242-243-244-245-246-247-248-249-250-251-252-253-254-255-256-257-258-259-260-261-262-263-264-265-266-267-268-269-270-271-272-273-274-275-276-277-278-279-280-281-282-283-284-285-286-287-288-289-290-291-292-293-294-295-296-297-298-299-300-301-302-303-304-305-306-307-308-309-310-311-312-313-314-315-316-317-318-319-320-321-322-323-324-325-326-327-328-329-330-331-332-333-334-335-336-337-338-339-340-341-342-343-344-345-346-347-348-349-350-351-352-353-354-355-356-357-358-359-360-361-362-363-364-365-366-367-368-369-370-371-372-373-374-375-376-377-378-379-380-381-382-383-384-385-386-387-388-389-390-391-392-393-394-395-396-397-398-399-400-401-402-403-404-405-406-407-408-409-410-411-412-413-414-415-416-417-418-419-420-421-422-423-424-425-426-427-428-429-430-431-432-433-434-435-436-437-438-439-440-441-442-443-444-445-446-447-448-449-450-451-452-453-454-455-456-457-458-459-460-461-462-463-464-465-466-467-468-469-470-471-472-473-474-475-476-477-478-479-480-481-482-483-484-485-486-487-488-489-490-491-492-493-494-495-496-497-498-499-500-501-502-503-504-505-506-507-508-509-510-511-512-513-514-515-516-517-518-519-520-521-522-523-524-525-526-527-528-529-530-531-532-533-534-535-536-537-538-539-540-541-542-543-544-545-546-547-548-549-550-551-552-553-554-555-556-557-558-559-560-561-562-563-564-565-566-567-568-569-570-571-572-573-574-575-576-577-578-579-580-581-582-583-584-585-586-587-588-589-590-591-592-593-594-595-596-597-598-599-600-601-602-603-604-605-606-607-608-609-610-611-612-613-614-615-616-617-618-619-620-621-622-623-624-625-626-627-628-629-630-631-632-633-634-635-636-637-638-639-640-641-642-643-644-645-646-647-648-649-650-651-652-653-654-655-656-657-658-659-660-661-662-663-664-665-666-667-668-669-670-671-672-673-674-675-676-677-678-679-680-681-682-683-684-685-686-687-688-689-690-691-692-693-694-695-696-697-698-699-700-701-702-703-704-705-706-707-708-709-710-711-712-713-714-715-716-717-718-719-720-721-722-723-724-725-726-727-728-729-730-731-732-733-734-735-736-737-738-739-740-741-742-743-744-745-746-747-748-749-750-751-752-753-754-755-756-757-758-759-760-761-762-763-764-765-766-767-768-769-770-771-772-773-774-775-776-777-778-779-780-781-782-783-784-785-786-787-788-789-790-791-792-793-794-795-796-797-798-799-800-801-802-803-804-805-806-807-808-809-810-811-812-813-814-815-816-817-818-819-820-821-822-823-824-825-826-827-828-829-830-831-832-833-834-835-836-837-838-839-840-841-842-843-844-845-846-847-848-849-850-851-852-853-854-855-856-857-858-859-860-861-862-863-864-865-866-867-868-869-870-871-872-873-874-875-876-877-878-879-880-881-882-883-884-885-886-887-888-889-890-891-892-893-894-895-896-897-898-899-900-901-902-903-904-905-906-907-908-909-910-911-912-913-914-915-916-917-918-919-920-921-922-923-924-925-926-927-928-929-930-931-932-933-934-935-936-937-938-939-940-941-942-943-944-945-946-947-948-949-950-951-952-953-954-955-956-957-958-959-960-961-962-963-964-965-966-967-968-969-970-971-972-973-974-975-976-977-978-979-980-981-982-983-984-985-986-987-988-989-990-991-992-993-994-995-996-997-998-999-1000



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<220>
<221> MOD_RES
<222> (1)..(1)
<223> acetyl-proline
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<222>    (1)..(7)
<223>    The synthesis of this peptide may be performed on an ABI 433A pep
peptide synthesizer using readily available materials well known to
ordinarily skilled artisans
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<400> 154

Xaa Leu Gly Leu Leu Ala Leu  
1 5

<210>	155
<211>	7
<212>	PRT
<213>	Artificial Sequence

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<221> MOD_RES
<222> (1)..(1)
<223> acetyl-proline
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<223> The synthesis of this peptide may be performed on an ABI 433A pep
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      ordinarily skilled artisans
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<400> 155

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1                      5

<210>	156
<211>	7
<212>	PRT
<213>	Artificial Sequence

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<222> (1) .. (1)
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SECRET

<223> acetyl-glycine

<220>

<221> PEPTIDE

<222> (1)..(7)

<223> The synthesis of this peptide may be performed on an ABI 433A peptide synthesizer using readily available materials well known to ordinarily skilled artisans

<400> 156

Xaa Pro Leu Gly Leu Ala Leu  
1 5

<210> 157

<211> 7

<212> PRT

<213> Artificial Sequence

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<223> acetyl-proline

<220>

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<222> (1)..(7)

<223> The synthesis of this peptide may be performed on an ABI 433A peptide synthesizer using readily available materials well known to ordinarily skilled artisans

<400> 157

Xaa Leu Gly Leu Ala Ala Leu  
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<210> 158

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<222> (1)..(1)

<223> acetyl-proline

<220>



<221> PEPTIDE  
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<400> 158

Xaa Leu Gly Leu Ala Leu Leu  
1 5

<210> 159  
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<223> The synthesis of this peptide may be performed on an ABI 433A peptide synthesizer using readily available materials well known to ordinarily skilled artisans

<400> 159

Xaa Leu Gly Leu Leu Ser Leu  
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<210> 160  
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<220>  
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<223> The synthesis of this peptide may be performed on an ABI 433A peptide synthesizer using readily available materials well known to

158-159: 158-159



<223> The synthesis of this peptide may be performed on an ABI 433A peptide synthesizer using readily available materials well known to ordinarily skilled artisans

<400> 162

Xaa Pro Arg Gly Xaa Tyr Leu  
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<400> 163

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<210> 164  
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103290-06301

<221> PEPTIDE  
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<400> 164

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<210> 165  
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<212> PRT  
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<400> 165

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<220>  
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<223> O-benzyl-serine

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<400> 167

109297230960

109290-259960

Xaa Leu Gly Xaa Tyr Leu  
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<210> 168  
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<400> 168

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<210> 169  
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<400> 172

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<210> 173

<211> 6

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<223> The synthesis of this peptide may be performed on an ABI 433A peptide synthesizer using readily available materials well known to ordinarily skilled artisans

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<210> 174

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<212> PRT

<213> Artificial Sequence

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<223> acetyl-proline

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<221> MOD\_RES  
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<210> 175  
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<220>  
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<220>  
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109240-2538861

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<210> 176  
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<220>  
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<400> 176

Xaa Pro Leu Gly Xaa Tyr Leu  
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<210> 177  
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<223> norleucine

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<400> 177

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<210> 178

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<223> The synthesis of this peptide may be performed on an ABI 433A peptide synthesizer using readily available materials well known to ordinarily skilled artisans

<400> 178

Xaa Leu Gly Xaa Tyr Leu  
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<210> 179

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 <223> homophenylalanine

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 <223> The synthesis of this peptide may be performed on an ABI 433A peptide synthesizer using readily available materials well known to ordinarily skilled artisans

<400> 179

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<210> 180  
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<400> 180

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<210> 182  
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093033.062601









<223> The synthesis of this peptide may be performed on an ABI 433A peptide synthesizer using readily available materials well known to ordinarily skilled artisans

<400> 186

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<210> 187  
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<400> 187

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<210> 188  
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<400> 188

Pro Leu Gly Xaa Tyr Leu  
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<210> 189  
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<400> 189

Pro Leu Gly Xaa Tyr Leu  
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103290-253336

<220>  
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<400> 191

Pro Leu Gly Xaa Tyr Leu  
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<210> 192  
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<220>  
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<210> 197  
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<220>  
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<221> PEPTIDE  
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<210> 200  
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<210> 201  
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<222> (4)..(4)  
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<400> 209

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